Panasonic

TX–W32D3F

TX–W28D3F

WIDE DIGITAL P–L–U–S

100Hz SUPER DIGITAL SCAN

Quintrix WIDE

King of Pictures GA00

TOP TEXT

Please read these instructions completely before use and retain them for future reference.

TQB8E2381U

Dear Panasonic Customer,
Welcome to the Panasonic family of customers. We hope that you have many years of enjoyment from your new colour television. This is a very advanced television, however, the Quick Start Guide will tell you how to have the TV operating quickly; you can then read the following pages to fully utilise the advanced features.

This television has a low power consumption making it very cost effective to run.
To this end, the standby power consumption is merely 1 watt.

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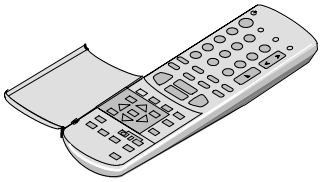
WARNINGS and PRECAUTIONS

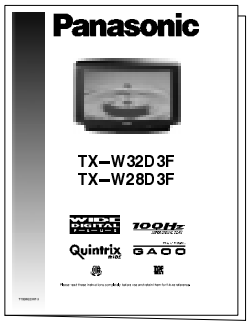
- This TV set is designed to operate on 220 – 240V, 50Hz A.C.
- To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture.
- **WARNING : HIGH VOLTAGE !!!**
  Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- Avoid exposing the TV set to direct sunlight and other sources of heat.
- Remove the mains plug from the wall socket when the TV set is not used for a prolonged period of time.
- **CABINET AND PICTURE TUBE CARE**
  Remove the mains plug from the wall socket. The cabinet and picture tube can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum. TV sets can produce static electricity, care must be taken whenever touching the TV screen.
- Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 5cm is left all around this television receiver even when it is placed inside a cabinet or between shelves.

Check that you have the accessories and items shown

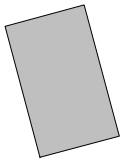


Remote Control Transmitter
(EUR51923)

Batteries for
the Remote Control Transmitter.
(2 x R6 (UM3) size)

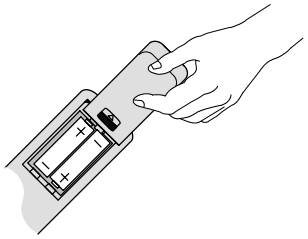


Operating Instruction book
TQB8E2381



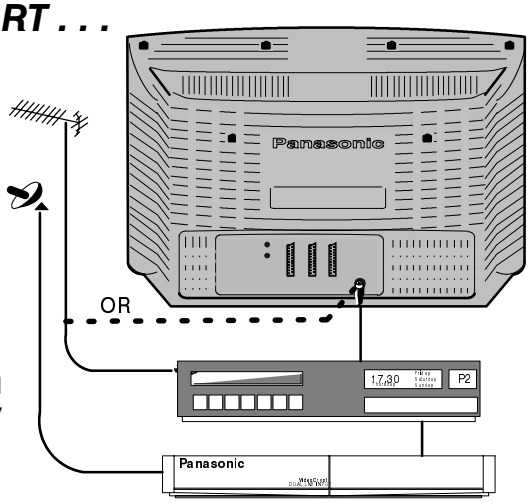
TV Guarantee

Remote control batteries



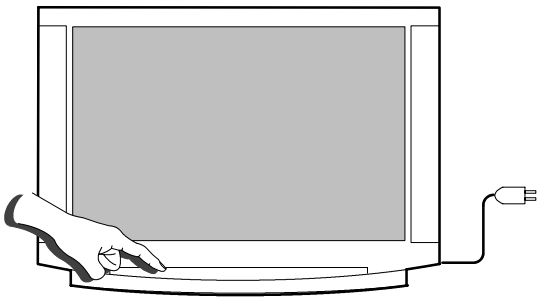
- Make sure that the batteries are fitted the correct way round.
- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- Do not mix different battery types, i.e. Alkaline and Manganese or use rechargeable (Ni–Cad) batteries.

QUICK START . . .



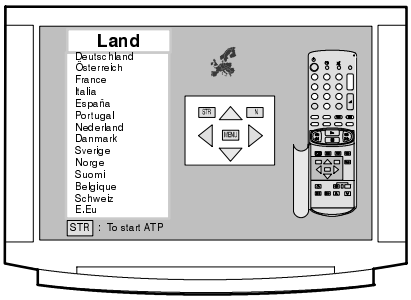
Plug in aerial and connect ancillary equipment see pages 24 and 25

Plug in T.V. and switch on

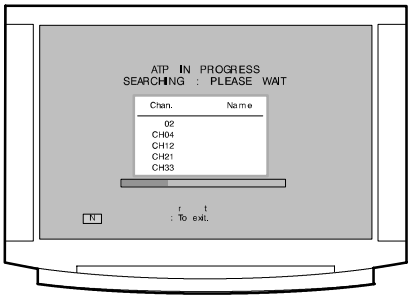


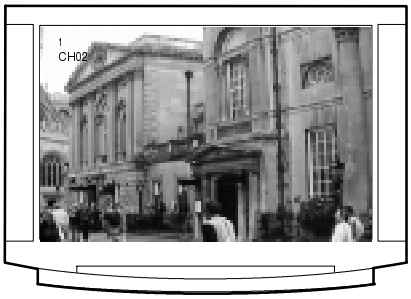
Select your country

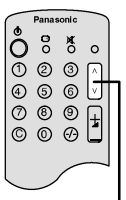
Choose language also for Switzerland and Belgium only.



Auto setup will begin, your stations will be located and stored

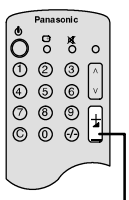






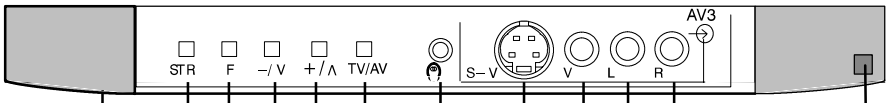
Change Channel

READY TO GO . . .



Adjust Volume

BASIC CONTROLS – FRONT PANEL AND REMOTE CONTROL



MAINS Power On/Off switch

STR (Normalisation store) Used to store tuning and other function settings

F (Function select) Displays the On Screen Display functions, use repeatedly to select from the available functions – Volume, Contrast, Brightness, Colour, Sharpness, Bass, Treble, Balance, Tuning mode and Geomagnetic correction

Red light indicates Standby mode. Use Standby switch, –, + or 0–9 keys to switch TV On

RCA Audio/Video sockets (page 24)

S–VHS socket (page 24)

Headphone socket (page 24)

TV/AV switch (page 20)

Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function.

Your geographical location may cause the picture to be slanted. Accessing the Geomagnetic Correction menu will allow you to correct the picture.

Status key will display programme position, channel number, sound system, MPX mode, colour system, Aspect setting, time and teletext station name. Press the colored keys for the Programme table (whilst in Status mode).

Standby ON/OFF switch Switches TV On or Off standby.

Channel change keys (0–9) and Teletext page keys (page 22)

Direct channel access page Press and enter channel using above numeric keys

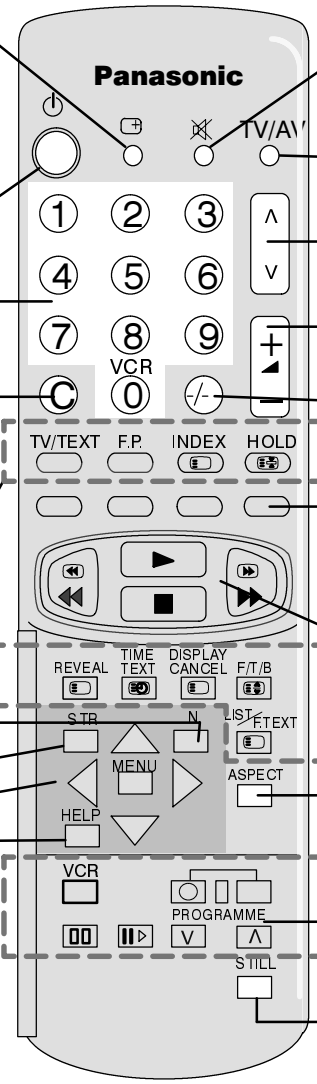
Teletext keys (page 22)

The N key will recall settings stored with STR

STR (Normalisation store)

On screen menu control keys (page 5)

Help key provides a demonstration of On Screen Display menus



Sound mute On/Off

Switch between viewing TV or AV input (page 20)

Channel change up/down

Volume increase/decrease

Programme position for selection of two digit programmes (10–99) using numeric keys

Coloured keys used for
Zoom mode (page 6)
Programme Edit functions (page 12)
Teletext functions (page 22)
AV selection (page 20)

Video recorder keys (page 21)

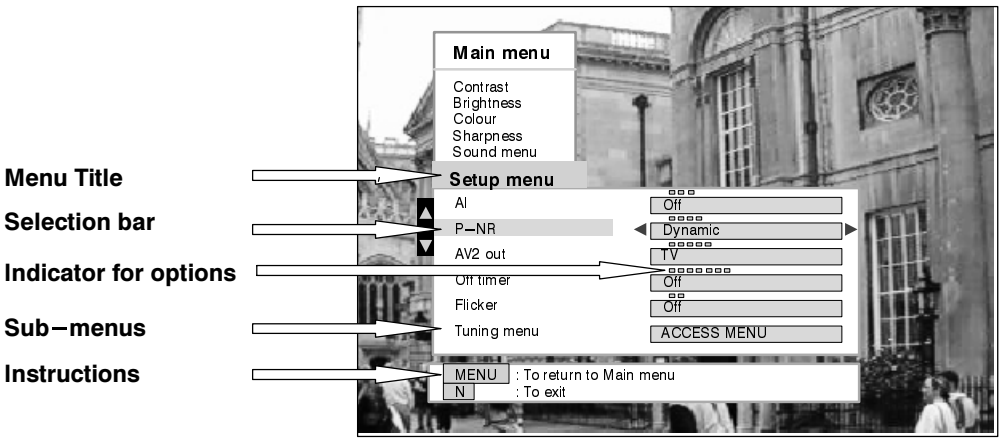
Aspect control (page 6)

Video recorder keys (page 21)

Still key to freeze the picture

USING THE ON SCREEN MENUS

This TV has a comprehensive system of On Screen Display menus to access adjustments and options.



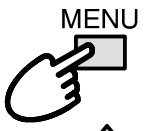
The following remote control keys are used to access and adjust settings for the On Screen Display menus.

Some selections, for example, **Contrast, Brightness, Colour** and **Sharpness** will allow you to increase or decrease their level.

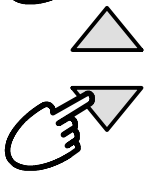
Some selections, for example, **Off timer**, allow a choice to be made.

Some selections, for example **Tuning menu**, will lead to a further menu.

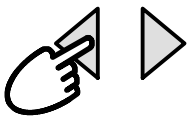
The **'MENU'** key is used to open the Main menu and also to return to either the Main menu or a previous menu.



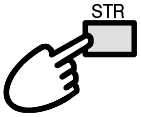
The ▲ ▼ keys are used to move the selector up or down the menus.



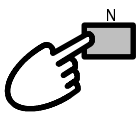
The ◀ ▶ keys are used to access menus, adjust levels or to select from a range of options.



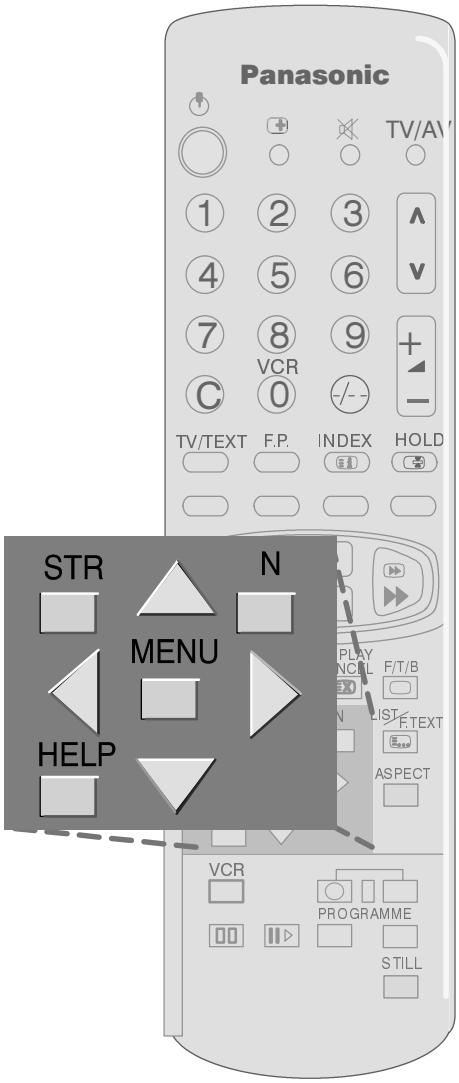
The **'STR'** key is used to store settings after your adjustment or choice has been made.



The **'N'** key is used to leave the menu system and return to the normal viewing screen.



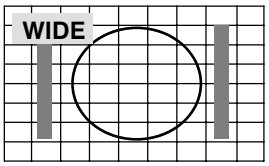
The **'HELP'** key will run a demonstration of the menus available.



ASPECT CONTROLS

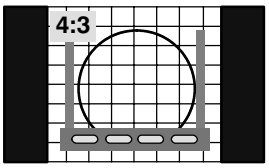
The widescreen TV will allow you to enjoy viewing the picture at its maximum size, including widescreen 'cinema format' pictures.

ASPECT

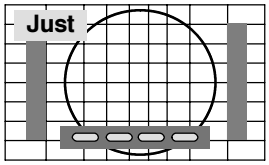


WIDE / PANASONIC AUTO

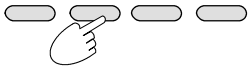
Some broadcasts are transmitted together with a wide screen identification signal (WSS). If the TV receives this signal then it will automatically switch to wide screen 16:9 mode, maximum display.
The automatic widescreen switching depends upon reception conditions and the strength of the signal. If the signal is poor and therefore the WSS is weak then it is possible that the picture may not expand to full size and that the TV will display black areas around the edges.



A 4:3 picture set to 4:3

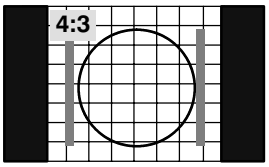


A 4:3 picture switched to Just mode



If the original source signal was a standard 4:3 aspect ratio then you might prefer to view in its original size; the red and green keys, that appear, will allow you to choose between viewing at standard **4:3** size or expanded in **Just** mode.

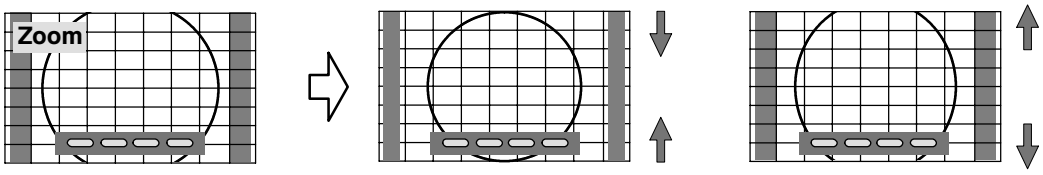
4:3



A 4:3 picture switched to its normal 4:3 viewing mode

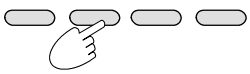
4:3 will display a 4:3 picture at its standard 4:3 size and can be selected if you wish to view in this format.

Zoom



The red key will reduce the picture size vertically

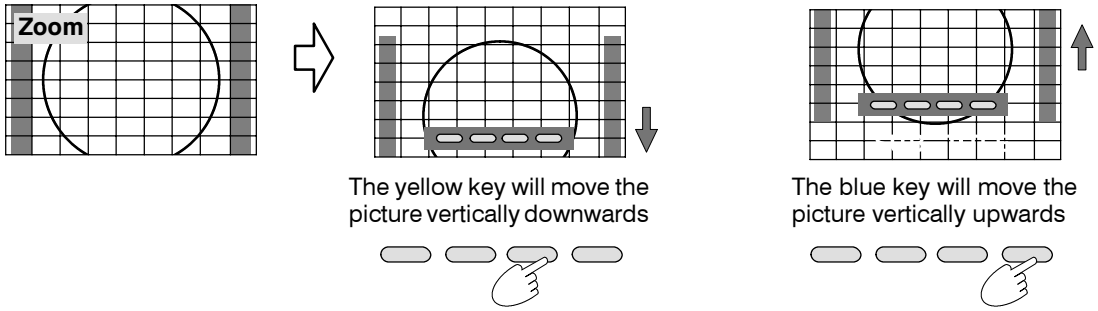
The green key will enlarge the picture vertically



In **Zoom** mode the size of the visible picture may vary according to the aspect ratio of the original picture. The red and green keys allow you to adjust the size.

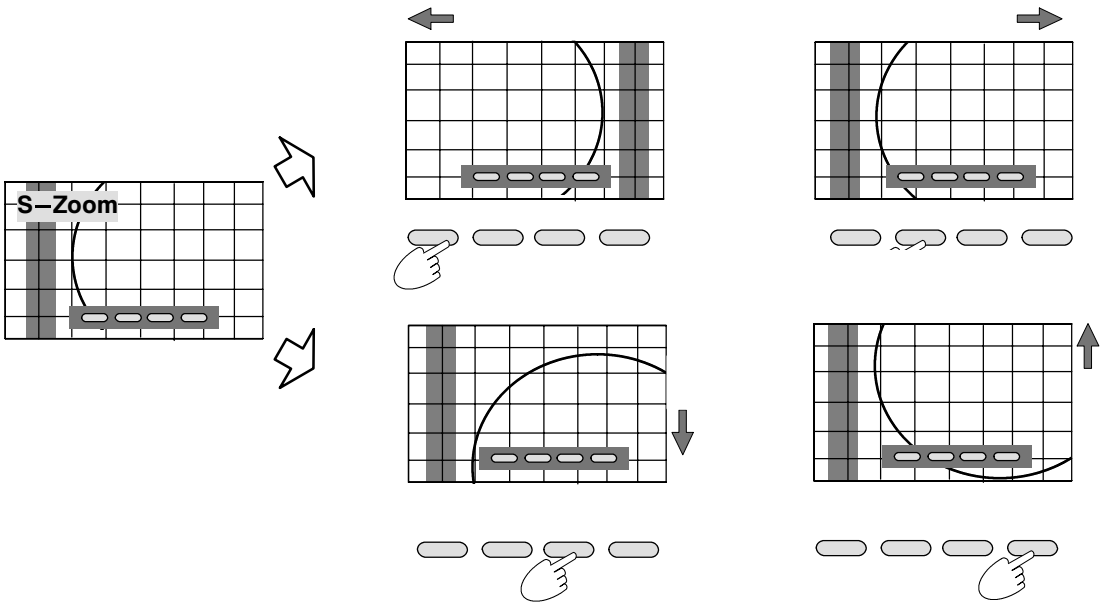
ASPECT CONTROLS

Zoom



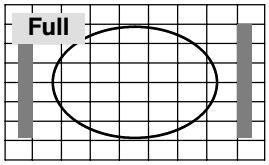
The picture can be moved vertically using the blue and yellow keys. The former adjustment is useful for viewing any sub–titles which may appear outside the picture.

S–Zoom



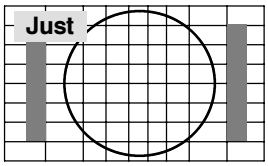
In **S–Zoom** mode the red and green keys will allow you to move the picture horizontally.
The yellow and blue keys will allow you to move the picture vertically.

Full



Full will display the picture at its maximum size but with slight elongation.

Just



Just mode will display a 4:3 picture at maximum size but with aspect correction applied to the centre of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend upon the original signal.

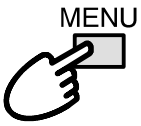
NOTES:

- The on screen selector keys that appear for some aspect functions will clear after a few seconds. If you subsequently wish to select an operation then press the Aspect key once more for the keys to reappear.
- The widescreen aspect ratios of different films and programmes can vary. If these are wider than a standard 16:9 aspect picture then a black band may be visible at the top and bottom of the screen.
- If, in WIDE mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR require adjustment (your VCR instruction book will contain adjustment details).

MAIN MENU

All menus start from the Main menu (except AV select and Tuning procedure (Front panel)). You will also find the basic picture quality adjustments within this menu.

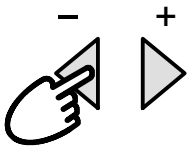
Open the Main menu

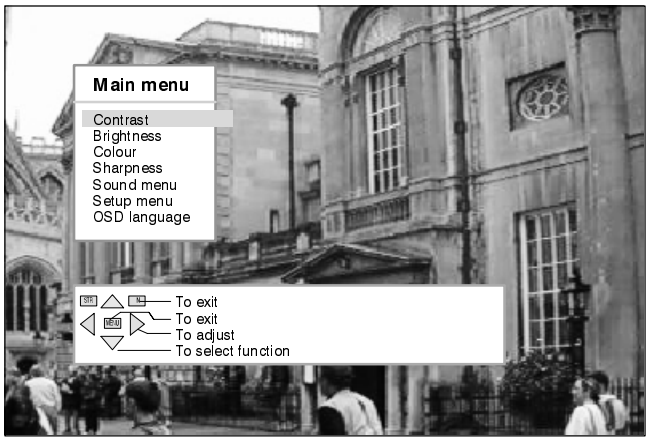


Move to your choice

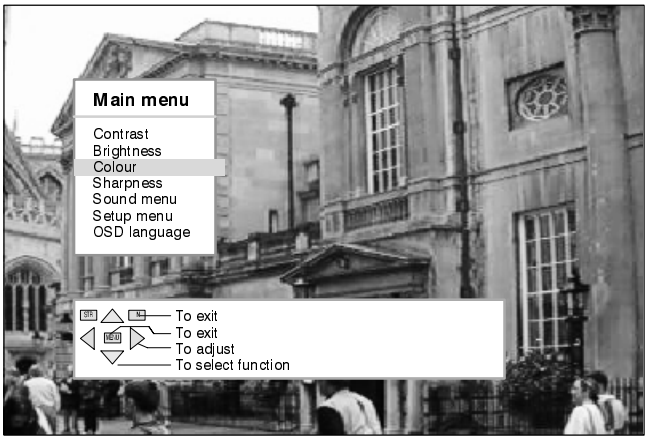
Access your choice

Increase or decrease levels or move to the Sound, Setup or OSD languages menus.





Contrast The Contrast level of the TV can be adjusted, to suit the lighting conditions of the room, as necessary.

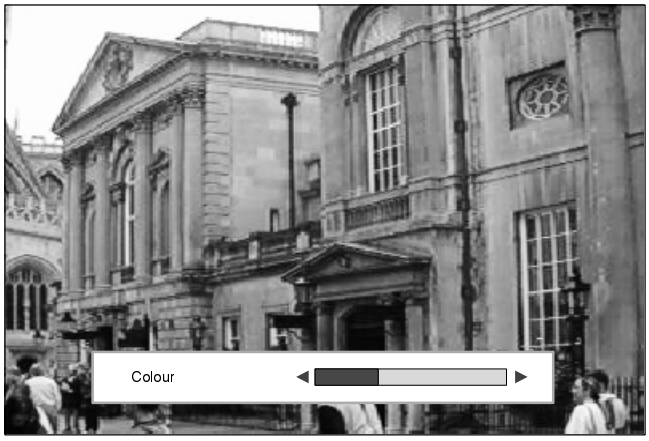


Brightness The Brightness level can be adjusted to suit your viewing conditions.

Colour The Colour level can be adjusted to your own preference.

Sharpness The picture can be softened or sharpened to your own preference.

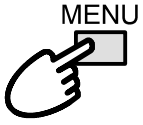
Tint The Tint adjustment will only appear as a menu item if you have an NTSC signal source connected to the TV and will allow adjustment of the hue.



Sound Menu Choosing the Sound menu will take you to that menu and allow adjustments to the sound quality.

Setup Menu Choosing the Setup menu will lead to the Setup menu for various feature adjustments.

OSD language The OSD language menu will allow you to change the language used for all on screen menus.



To close Main menu

SOUND MENU

The Sound menu will allow you to set your personal preferences for all aspects of sound quality

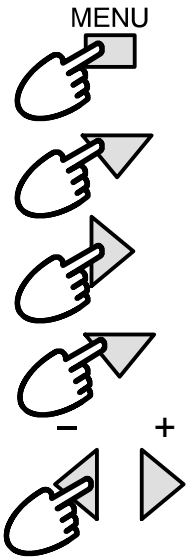
Open the Main menu

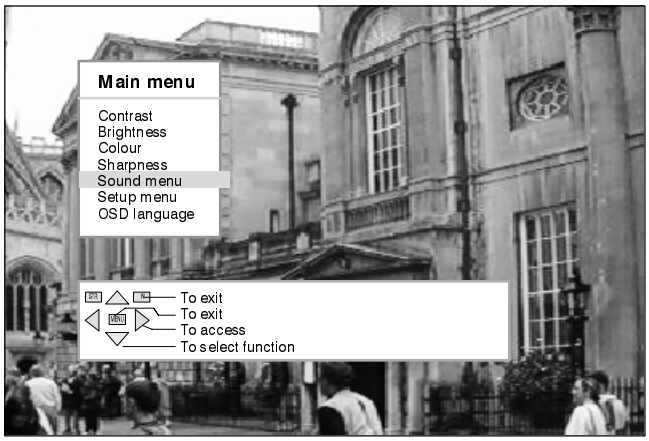
Move to Sound menu

Access Sound menu

Move to your choice

Increase or decrease levels or choose from options of MPX, Mode or ambience.





Bass

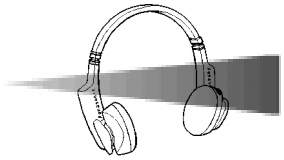
Bass adjustment will emphasise the lower, deeper frequencies and can be increased or decreased.

Treble

Treble adjustment will emphasise the sharper, higher frequencies and can be increased or decreased.

Balance

Balance affects the levels of sound between the left and right speakers. Adjustment can be made so that the level from between speakers will suit your listening position.



The headphone volume can be adjusted independently of the TV speakers so that everyone can enjoy listening at their own comfort level.

MPX

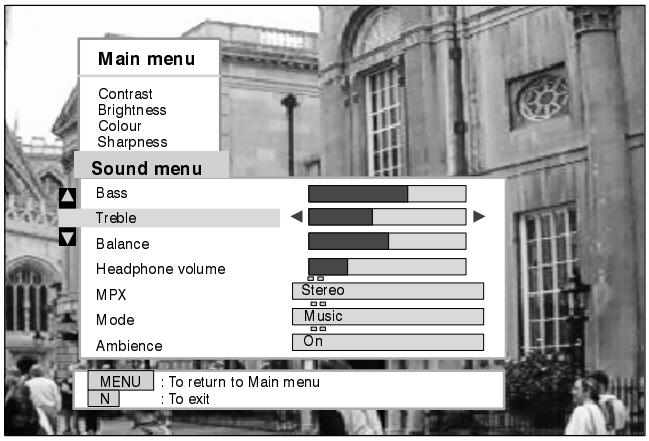
MPX will usually be set to Stereo to provide the best reproduction, however if reception deteriorates or if the service is not available then it is advisable to switch to Mono. Mono (M1) and (M2) can also be selected if signals are being transmitted.

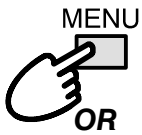
Mode

The sound can be improved during Music or Speech mode by selecting the appropriate function.

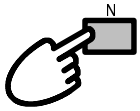
Ambience

Ambience provides a dynamic enhancer to give a greater depth of sound, you can choose to switch On or Off.





Return to Main menu



To exit menu system

The Setup menu provides access to various advanced features and also to the Tuning menu

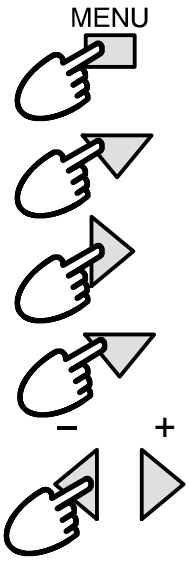
Open the Main menu

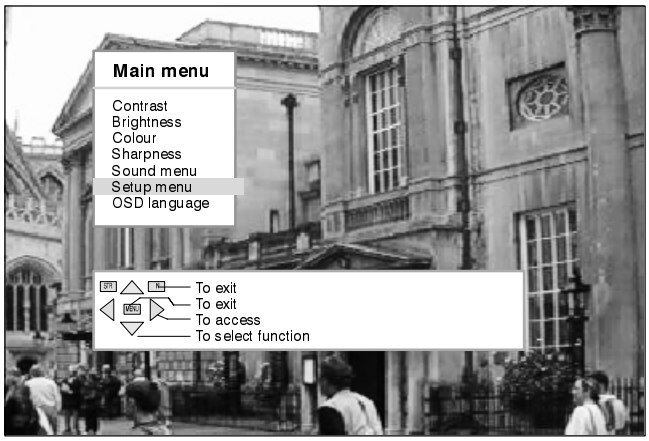
Move to Setup menu

Access Setup menu

Move to your choice

Increase or decrease levels or choose from options





AI

AI automatically analyses the incoming picture and processes it to give improved contrast, optimum field of depth and vivid colour tones. Choose either Off or from two levels of application.

P–NR

P–NR will automatically reduce unwanted picture interference. Choose either Off or one of 3 levels of application.

AV2 out

AV2 offers you a choice of signals to send to the AV2 SCART socket. You can choose from the current **TV** programme position, the signal entering **AV1**/**AV3**/**AV4** or **mon**itor – the picture displayed on screen.

Off timer

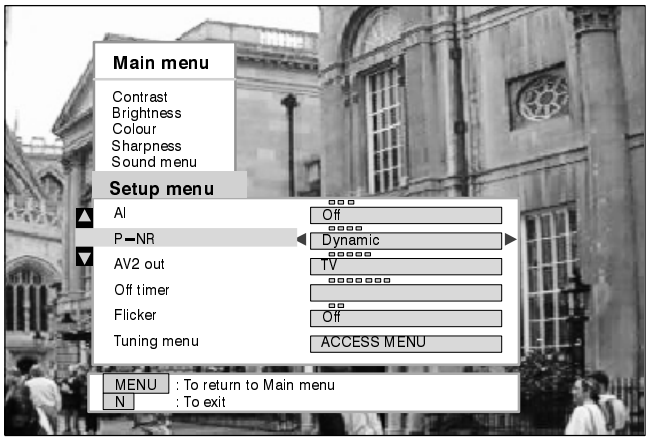
Off timer will switch the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

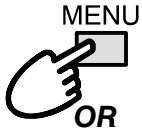
Flicker

You will normally find that **Flicker** is best set to ON to reduce any slight picture movement. However, it is possible that some occasional broadcasts may benefit by selecting the OFF position.

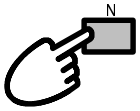
Tuning menu

The Tuning menu provides an entry to many other features including Programme edit, ATP, Fine tuning , Colour system, and Text language.





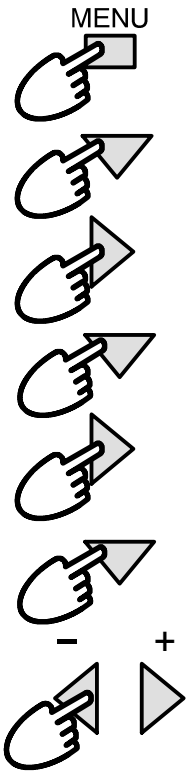
Return to Main menu



To exit menu system

TUNING MENU

The Tuning menu provides access to both manual and automatic tuning menus



Open the Main menu

Move to Setup menu

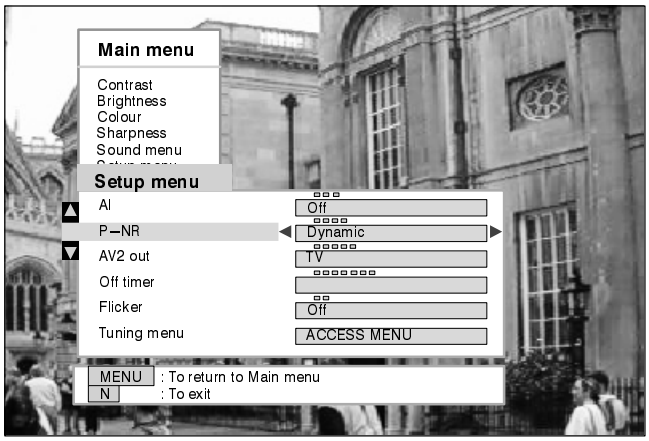
Access Setup menu

Move to Tuning menu

Access Tuning menu

Move to your choice

Increase or decrease levels or choose from options



Programme edit

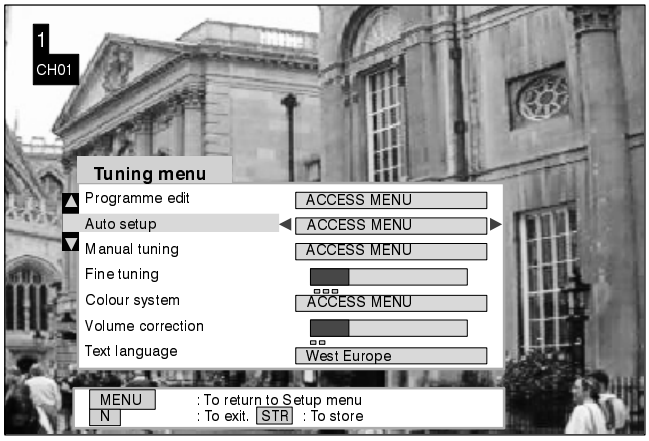
Accessing Programme edit menu will allow stations to be moved, added, deleted, named, locked and provides access to the TV – system. Further details on page 12.

Auto setup

The Auto setup menu allows you to automatically retune the TV. Further details on page 17.

Manual tuning

The Manual tuning menu allows individual programme positions to be tuned manually. Further details on page 18.



Fine tuning

Stations can be tuned finely using the Fine tuning adjustment.

Colour system

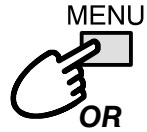
The Colour system menu allows you to decide the correct choice of transmission standard.

Volume correction

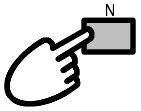
Volume correction allows you to adjust the volume level of individual stations.

Text language

You can choose either West Europe or East Europe to provide the most suitable characters to be used for your Teletext viewing.



Return to Setup menu

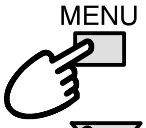


To exit menu system

TUNING MENU – Programme edit

The Programme edit menu allows you to delete, add, move, retune, name and lock channels and to change the TV–system

Open the Main menu

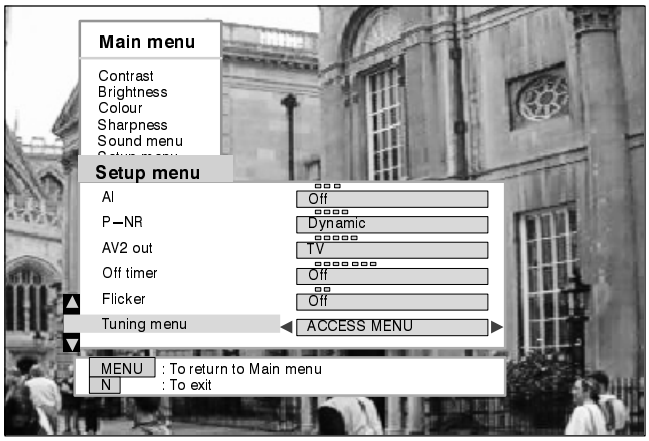


Move to Setup menu

Access Setup menu

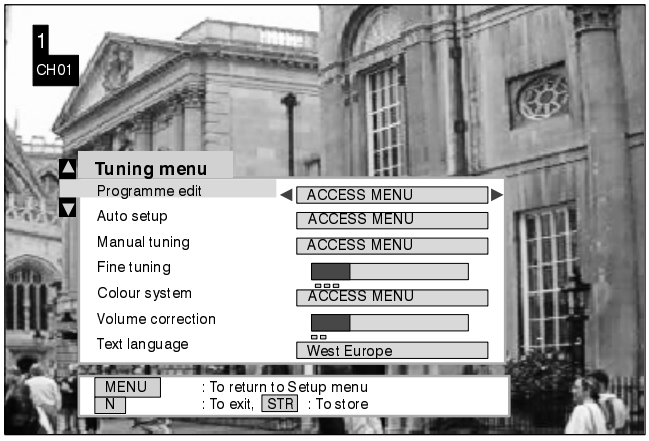
Move to Tuning menu

Access Tuning menu



Move to Programme edit

Access Programme edit

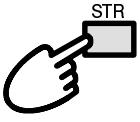


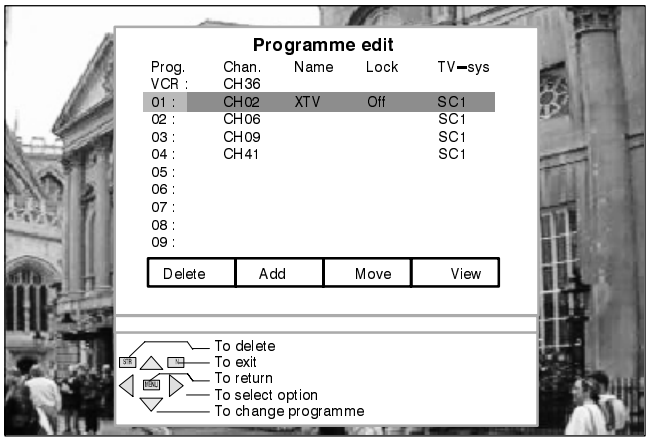
To delete an unwanted programme position

Choose the programme position

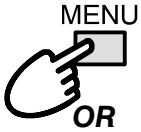
Press the red key on remote control

Press STR to delete



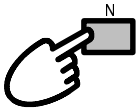


If you have completed changes to the Programme edit menu then



Return to Tuning menu

OR



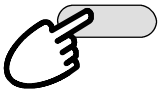
To exit menu system

TUNING MENU – Programme edit

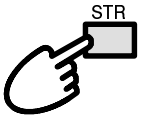
To add a programme position

Choose the programme position

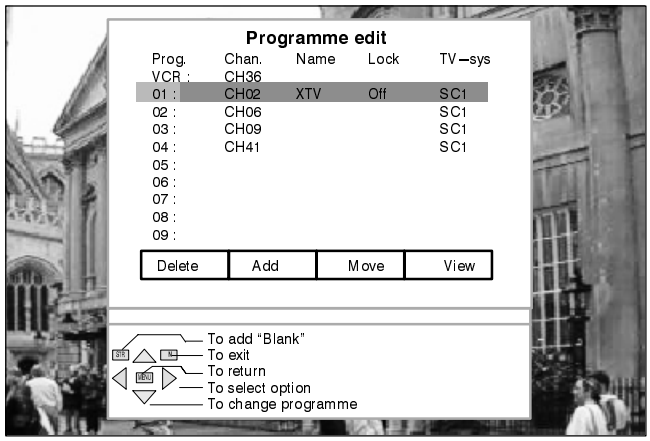
Press the green key



Press STR to add

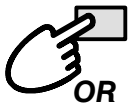


This blank programme can then be tuned, named, locked and be allocated your choice of TV–system



If you have completed changes to the Programme edit menu then

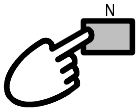
MENU



OR

Return to Tuning menu

N



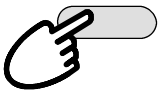
To exit menu system

To move a programme to another position

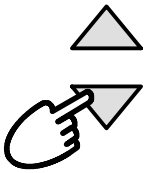
Choose the programme position

Press the yellow key on remote control

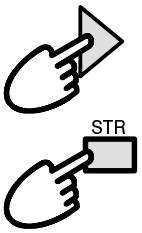
Choose new position

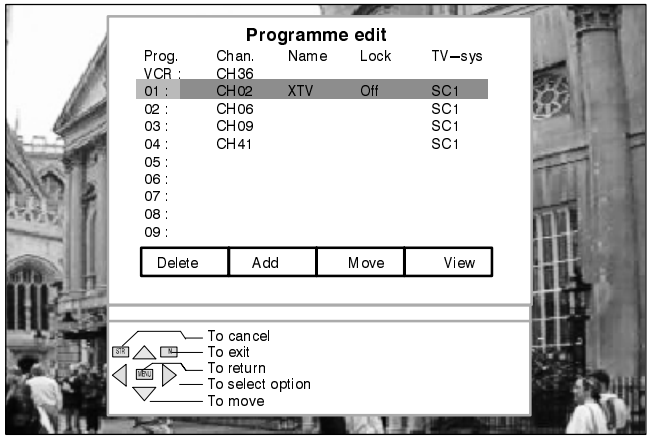


To action new position



Press STR to store





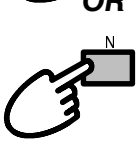
If you have completed changes to the Programme edit menu then

MENU

OR

Return to Tuning menu

N

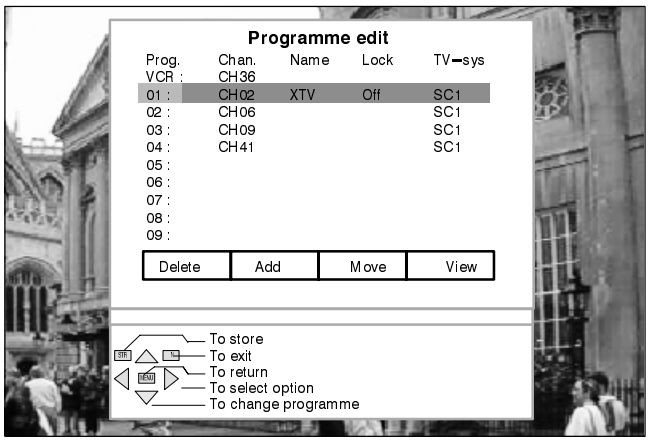


To exit menu system

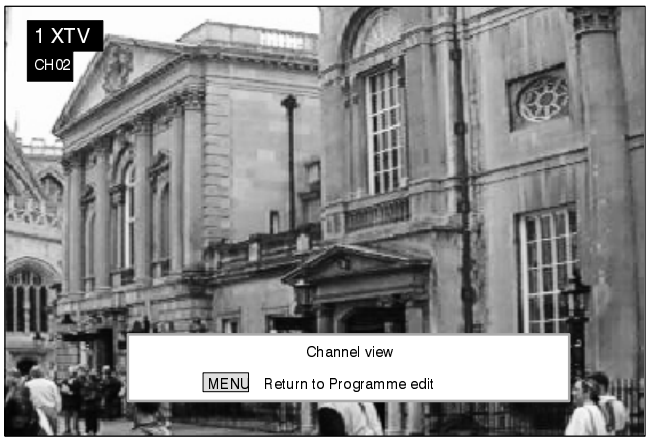
To view a programme position

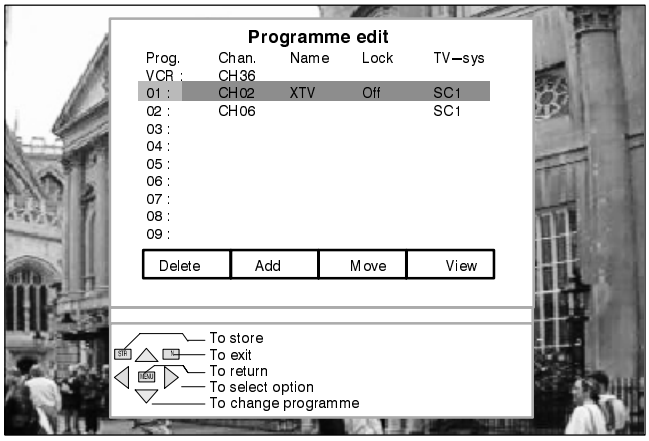
Choose the programme position

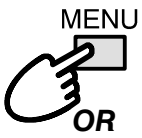
Press the blue key on remote control



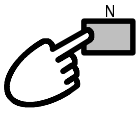
The screen will return to Programme edit after a few seconds







Return to Tuning menu

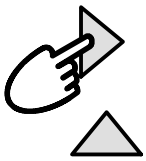


To exit menu system

To tune a programme position

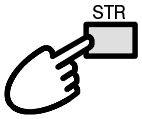
Choose the programme position

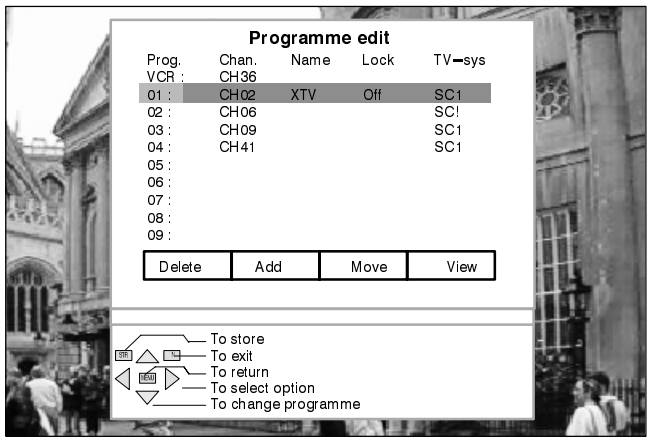
Move to the channel setting



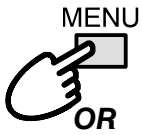
Increase or decrease channel number

Press STR to store

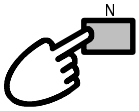




If you have completed changes to the Programme edit menu then



Return to Tuning menu



To exit menu system

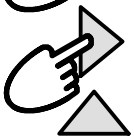
To rename a programme position

Choose the programme position

Move to the Name position

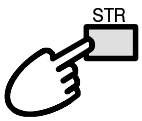
Choose the new character

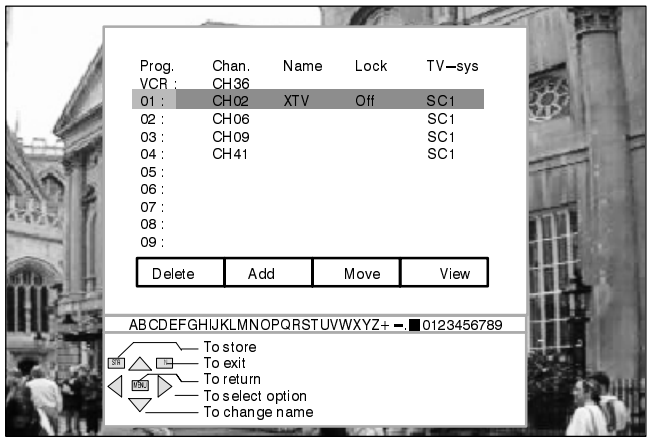
Move to the next character position



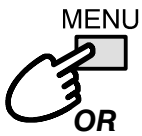
Continue until renaming is completed

Press STR to store

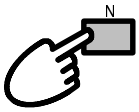




If you have completed changes to the Programme edit menu then



Return to Tuning menu



To exit menu system

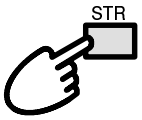
To lock a programme position to prevent access

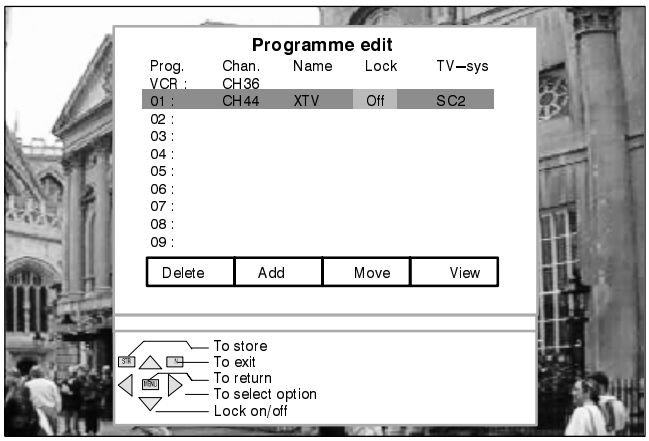
Choose the programme position

Move to the lock key

Choose between lock on or lock off

Press STR to store





If you have completed changes to the Programme edit menu then

MENU

OR

Return to Tuning menu

N

To exit menu system

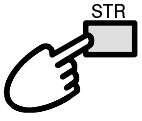
To change the TV–system for a programme position

Choose the programme position

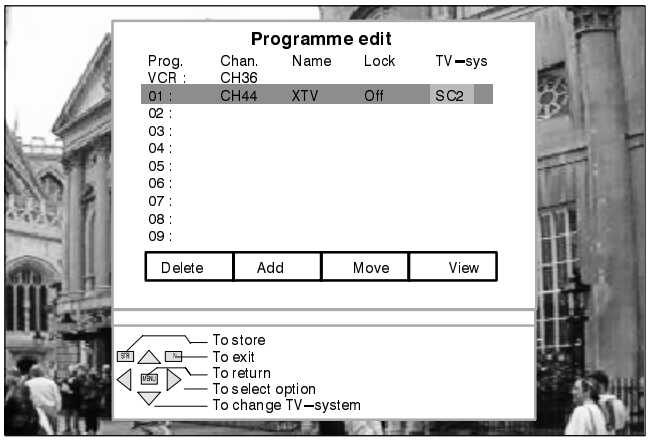
Move to the TV–sys position

Choose the required sound system

Press STR to store



***SC1=PAL B,G,H / SECAM B,G**
SC2=PAL I
SC3=PAL D,K / SECAM D,K
F=SECAM L/L'



If you have completed changes to the Programme edit menu then

MENU

OR

Return to Tuning menu

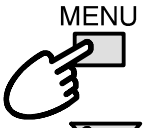
N

To exit menu system

TUNING MENU – Auto setup (ATP)

The Auto setup menu will allow you to automatically retune the TV to your local stations. It is useful if you move to a different region.

Open the Main menu



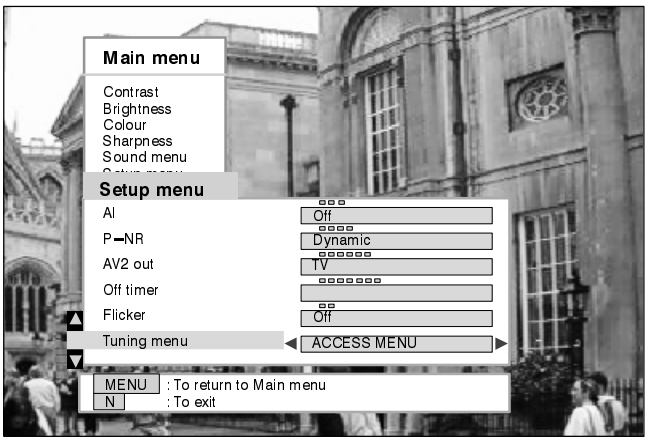
Move to the Tuning menu

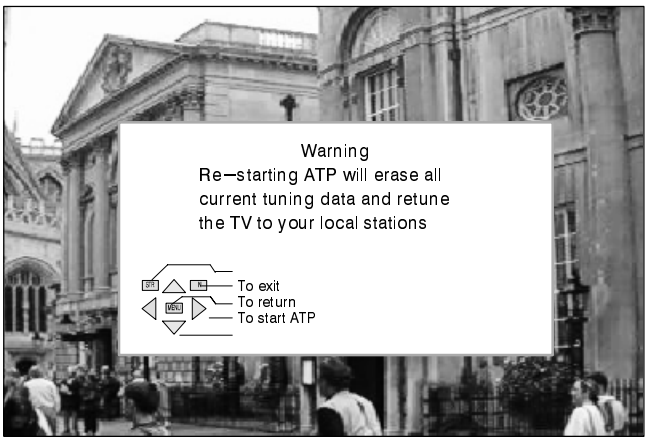
Access Tuning menu

Move to Auto setup menu

Access Auto setup menu

Press to start Auto setup (ATP)

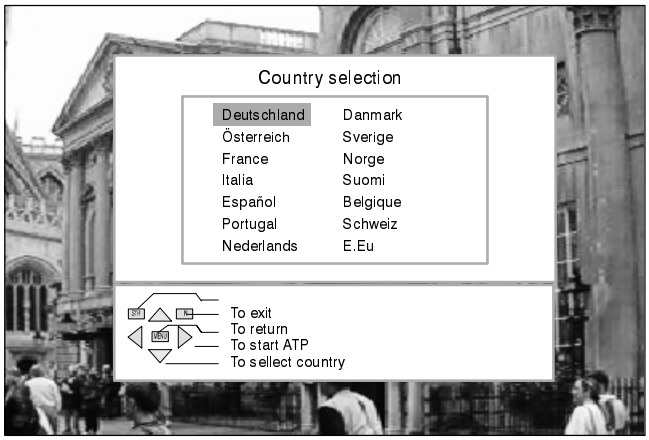




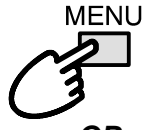
Select your country

Press to start Auto setup (ATP)

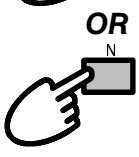
The TV will search for, locate and order your local stations.



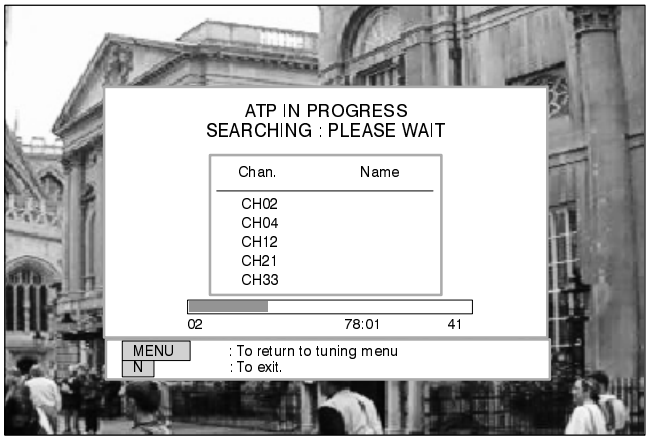
Press Menu to return



Press N to exit



Once this operation is completed the TV will display programme position 1.



Manual tuning of the Programme positions is available either from the on screen display menu or from the front panel controls

Manual tuning menu

Open the Main menu

Move to Setup menu

Access Setup menu

Move to Tuning menu

Access Tuning menu

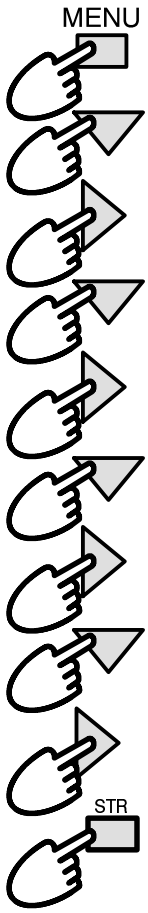
Move to Manual tuning

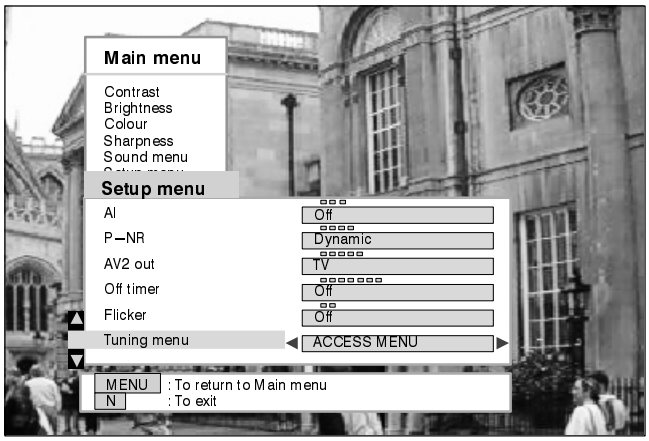
Access Manual tuning

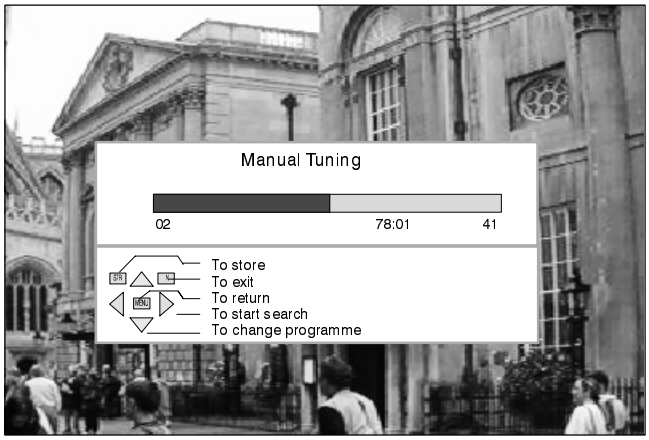
Select the programme position

Start tuning

Press STR to store







Manual tuning (Front panel)

Press the F button (Front panel) until the Tuning menu is reached

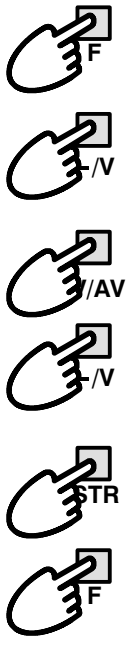
Press the – or + button to access Tuning menu

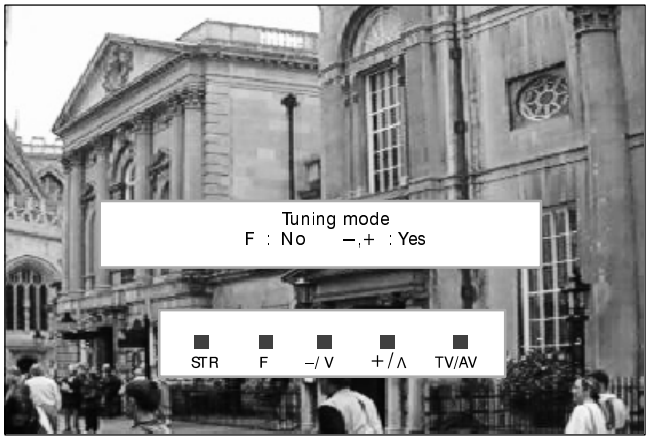
Press the TV/AV button to change to the required programme position

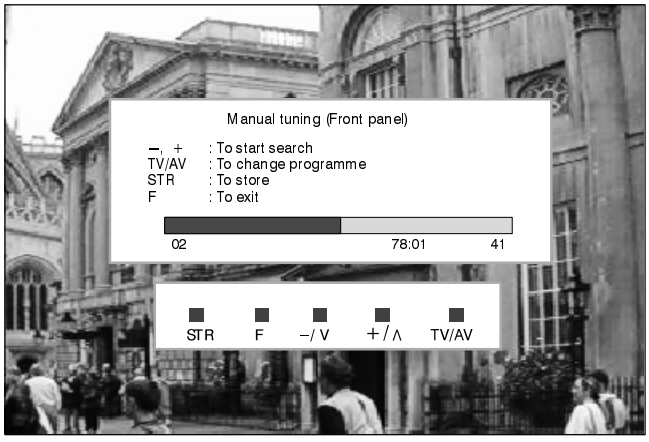
Press the – or + button to start the tuning search

Press STR to store changes

Press the F button to exit



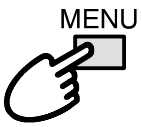


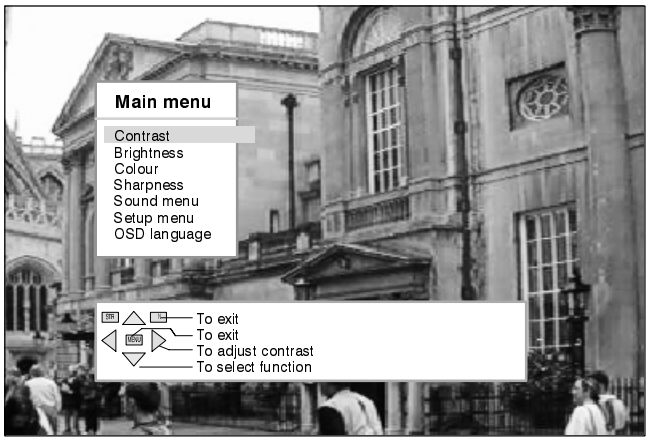


OSD LANGUAGE

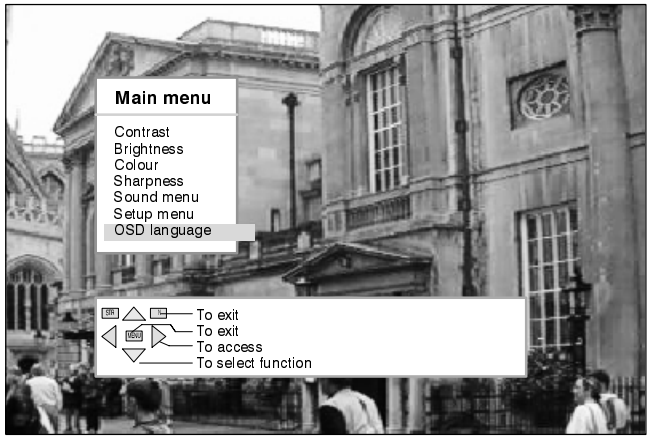
When you first installed the TV the on screen display language was set according to your choice of country. If you wish to use a different language then it can be chosen from the OSD language menu.

Open the Main menu

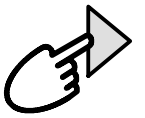


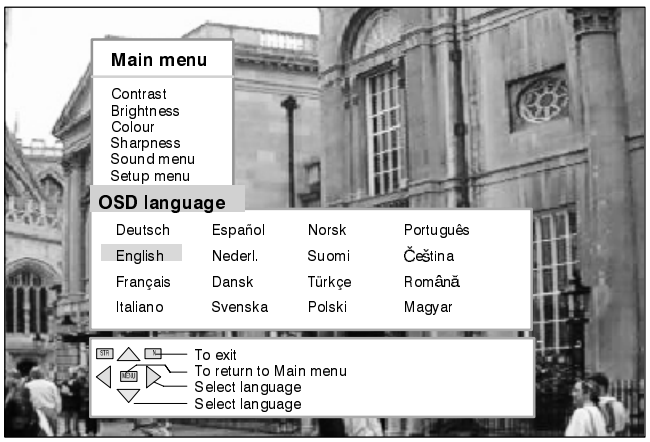


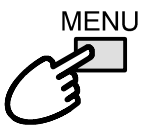
Move to the OSD language menu



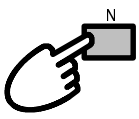
Access your choice







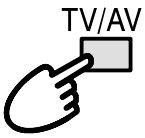
Return to Main menu



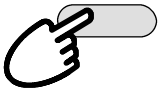
To exit menu system

The AV Select menu will allow you to choose which AV source to view.

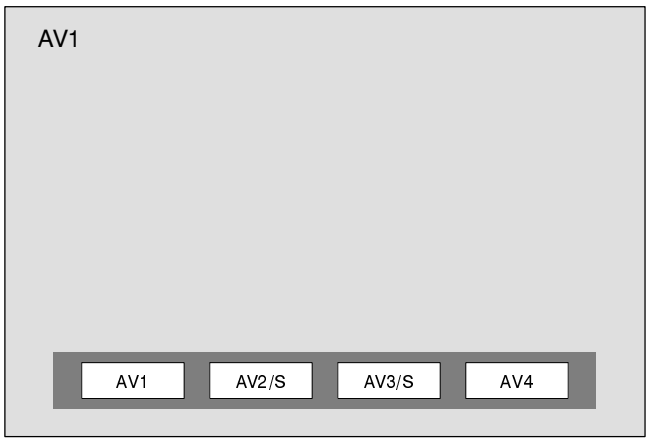
Press the TV/AV key (remote control or TV)



Press the appropriate coloured key of remote control (whilst the options remain on screen)

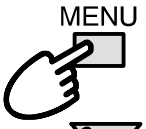


Press the green or yellow keys again to select S–Video input



You may wish to make adjustments to the Setup or Sound menus

Open the Main menu

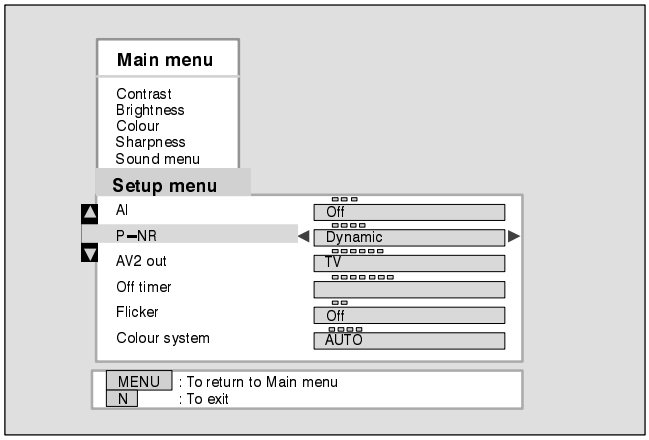


Move to Setup menu

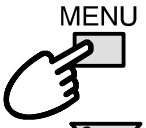
Access Setup menu

Move to your choice

Access adjustments or options



Open the Main menu

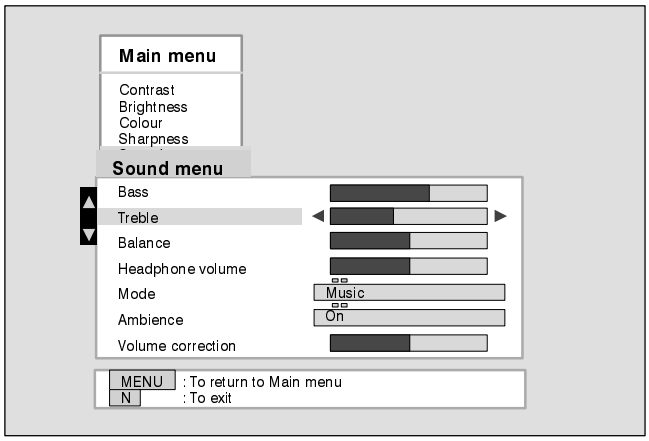


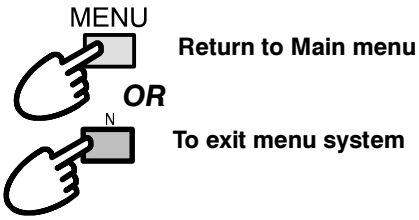
Move to Sound menu

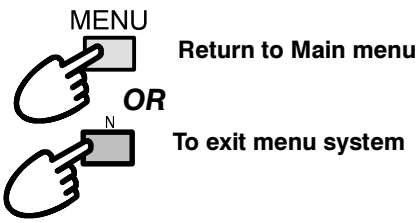
Access Sound menu

Move to your choice

Access adjustments or options

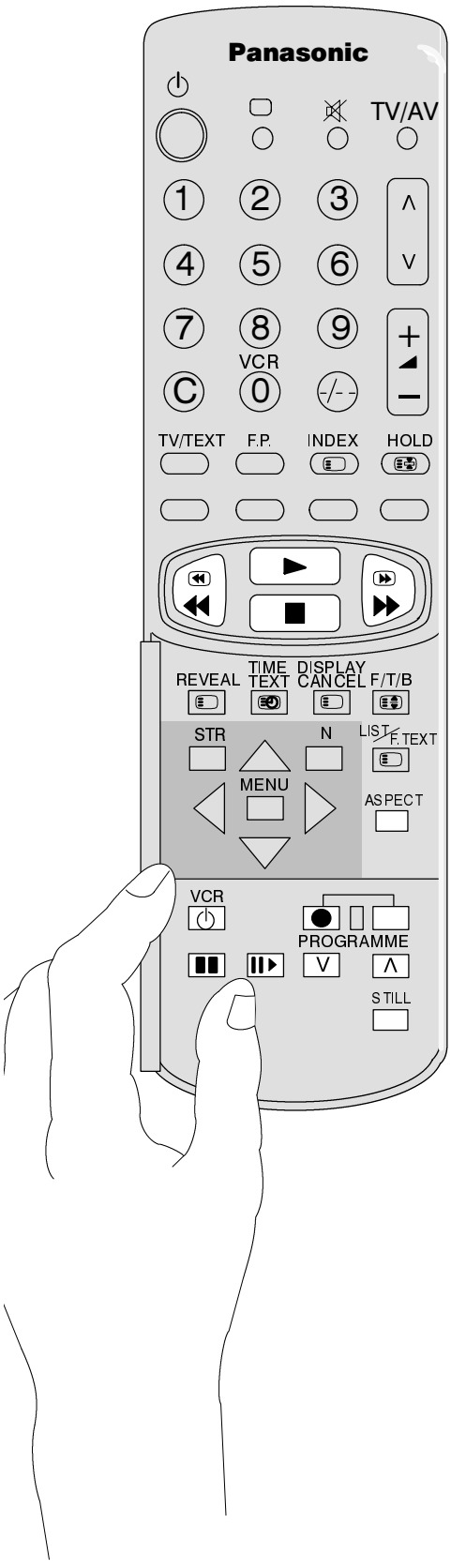






VCR CONTROL

The Remote Control is capable of operating some functions of selected Panasonic VCRs, please consult your dealer for details. Some VCR have different functions, so to ensure compatibility, please refer to the VCR's instruction book.
If any difficulty is encountered when using this remote control with Panasonic videorecorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.



VCR

Standby

Press to switch the VCR to standby mode. Press again to switch back on.

Play

Press to playback the tape.

Stop

Press to stop the tape.

Fast Forward / **Cue**

Press to fast forward the tape. In Play mode, press to view the picture rapidly forward.

Rewind / **Review**

Press to rewind the tape. In Play mode, press to view the picture in reverse rapidly.

Pause / **Still**

Press in playback mode, the picture will pause.

Still Advance

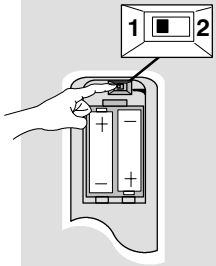
While in PAUSE / STILL mode, press to advance the picture one frame at a time.

Programme Up / **Down**

Press to increase or decrease the VCR programme position by one.

Record

Press these together to record.



Operating Switch

If any difficulty is encountered when using this remote control with Panasonic video cassette recorders please check the operation of the video recorder with the operating switch set at position one and again with the switch set at position two.

TELETEXT OPERATION

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- This TV set is capable of receiving German TOP Teletext transmissions, it will automatically switch to them if they are being received. This will be indicated in the display area at the bottom of the screen.
- Pressing the **MENU** key whilst in Teletext operation will display the contrast function with a cyan bar, press ◀ ▶to alter the setting as required.
- When in teletext mode, the volume may still be altered to the desired listening level.

What is LIST mode?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information of the subjects shown.

What is TOP Teletext?

TOP stands for TABLE OF PAGES or 'Teletext without problems'
TOP Teletext is a new development to make the task of selecting the desired Teletext pages easier and shorter. In fact page access time is instantaneous, just press the button and the page appears.

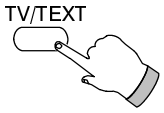
How does it work?

TOP uses the four coloured keys, Red, Green, Yellow and Blue to select the following information.

- The Red key will select the next available page DOWN.
- The Green key will select the next available page UP.
- The Yellow key selects pages within a group, each time the Yellow key is pressed the topic within the group will change, for example you could change from an Economic topic to a CULTURAL topic by using this key. With the Red and Green keys selection of the next available pages DOWN and UP is possible within the CULTURAL topic.
- A larger jump from group to block is possible by use of the Blue key, this could be a SPORT topic for example. Within this SPORT topic it is possible to select different groups such as Tennis, Football, Baseball etc, using the Red and Green keys the next available pages DOWN and UP can be selected.

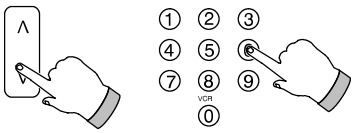
What are the advantages?

- Page selection at the touch of a single key.
- Easy to use step–by–step selection of the topical subject.
- Reduction of waiting time.
- If non existent page number is entered, a question mark will appear at the bottom of the screen.
- Page status line at bottom of screen so you always know which key will take you to the desired information.



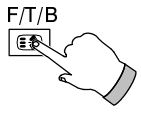
TV / Teletext mode

Press the **TV/TEXT** key.
The screen will display the Teletext page.
Press again when you wish to return to TV. mode.



Page Selection

Pages can be selected in two ways :
a. Press the Up / Down keys to increase or decrease the page number by one.
b. By entering the page number, using 0 –9 on the remote control.

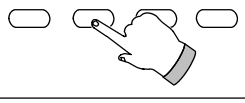


Full / Top / Bottom

Press to expand the TOP half of the page.
Press again to expand the BOTTOM half.
Press again to return to normal (FULL) size.

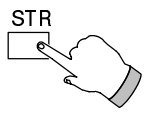
Reveal

Press to reveal hidden words e.g. quiz page answers.
Press again to hide.



Red / Green / Yellow / Blue keys

In TOP or FASTEXT mode these correspond to the differently coloured subjects.
In LIST mode they correspond to the differently coloured page numbers.

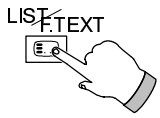


List Store

In LIST mode the four page numbers can be altered for channel positions 1 – 25 only.
To do this, press one of the coloured keys and enter the new page number.
Press and hold **STR**, the page numbers will change colour.

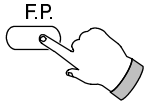
TELETEXT OPERATION

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.



List / F.text (List / Top)

When in List / Top operation
Press to change from TOP mode to LIST operation and vice versa.
When in List / Fastext operation
Press to change from FASTEXT mode to LIST mode and vice versa.
In FASTEXT mode four differently coloured subjects are displayed at the bottom of the page. Press the appropriate coloured key to access more information about one of these subjects.

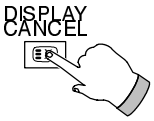


Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 – 25. Press the **BLUE** key, select the page number, then press **STR**. The page number is now stored.
Press **F.P.** to recall this page.

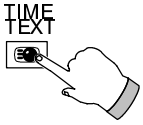
Display Cancel

Press **DISPLAY CANCEL** to view the TV picture whilst searching for a Teletext page.
When found, the screen will display the page number at the top left.
Press **DISPLAY CANCEL** to view the page.
Press **TV** / **TEXT** to return to normal TV operation.



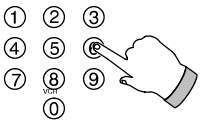
News Flash
When a news flash page has been selected, press **DISPLAY CANCEL** to view the TV picture, when an update is received, it will be displayed on screen.
Press **DISPLAY CANCEL** to remove updated news.
Press **TV** / **TEXT** to return to normal TV. operation.

Update
Press **DISPLAY CANCEL** to see the update of information on certain pages.
When an update is received, the page number will be displayed at the top left of the screen.
Press **DISPLAY CANCEL** to view the page.
Press **TV** / **TEXT** to return to normal TV. operation.



Sub Coded Page Access

When teletext information exceeds more than one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. It is possible to enter your required sub page and continue watching the normal programme until the correct sub page is found.
Select the required page number using keys 0 – 9.



Press **TIME TEXT**, ******** will be displayed (top right of the screen).

Enter desired sub page number before the ******** disappears.
To select page 6 enter 0, 0, 0 and 6.

If in LIST mode, a 'T' will appear in the current box at the bottom.

Press **DISPLAY CANCEL** to view a normal TV programme.

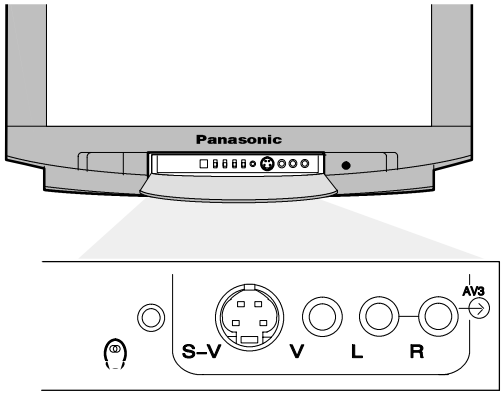
When the page is available, press **DISPLAY CANCEL** to view the page.
To clear the page perform one of the following :

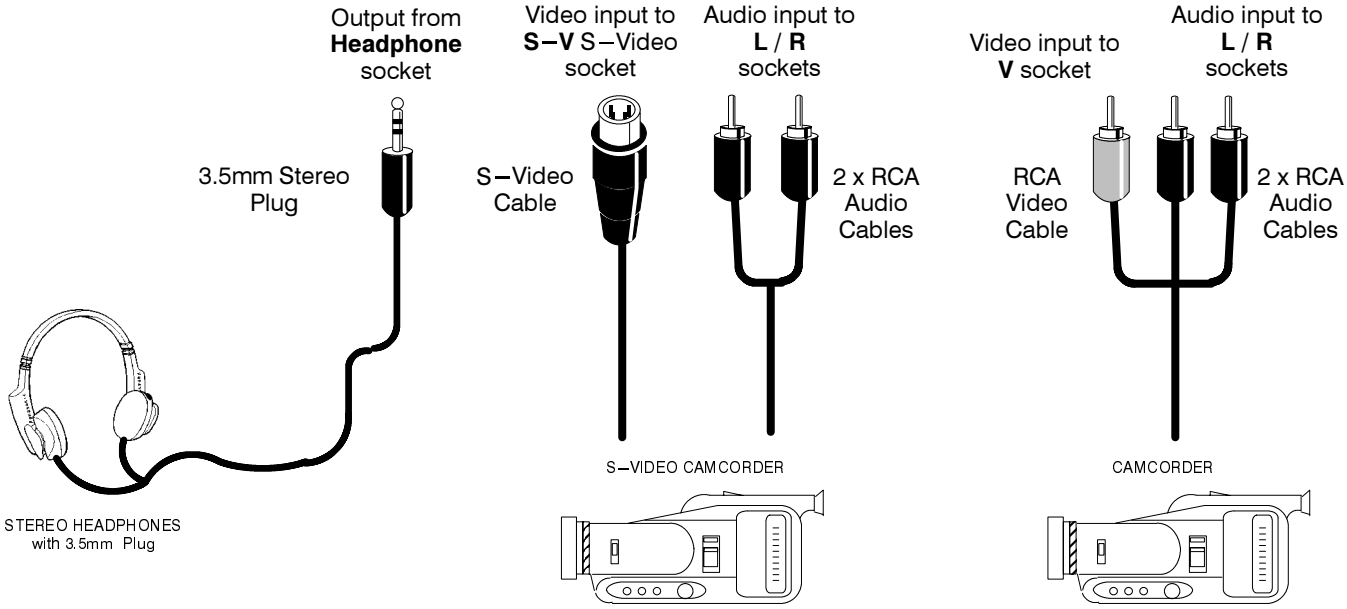
- Select a new page number.
- Press **TV**/**TEXT** to return to normal TV operation.

Index

When in TOP operation
Press **INDEX** to display the PANASONIC INDEX Directory
Press **RED** / **GREEN** to move the cursor UP / DOWN.
Press **YELLOW** to move to next directory page.
Press **BLUE** to view the selected subject.
Press **INDEX** key to return to main index.
When in FASTEXT operation
Press **INDEX** to return to the main index page.

Front AV3 4 Pin S–Video, RCA Audio /Video and Headphone Sockets



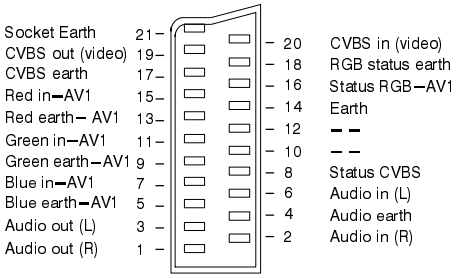

Output from **Headphone** socket
3.5mm Stereo Plug
STEREO HEADPHONES with 3.5mm Plug
Video input to **S–V** S–Video socket
Audio input to **L** / **R** sockets
S–Video Cable
2 x RCA Audio Cables
S–VIDEO CAMCORDER
Video input to **V** socket
Audio input to **L** / **R** sockets
RCA Video Cable
2 x RCA Audio Cables
CAMCORDER

Notes :

- *Ancillary equipment and cables shown are not supplied with this TV set.*

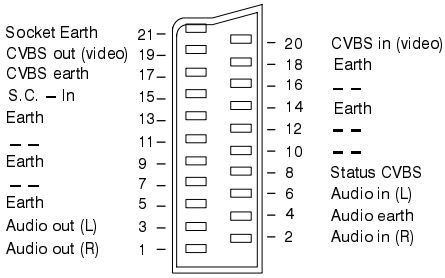
■ SCART and S–Video Terminal Information

AV1and AV4 21 pin SCART terminals



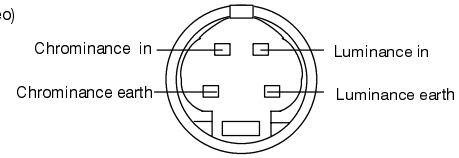
Suitable inputs for **AV1** include RGB (Red/ Green/Blue).
AV4 does not have RGB input capability.

AV2 21 pin SCART terminal

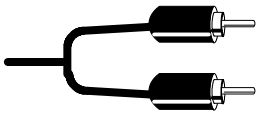


AV2 – Pins 15 and 20 are dependent on AV2 S–VHS / VIDEO switching.

S–Video 4 pin terminal

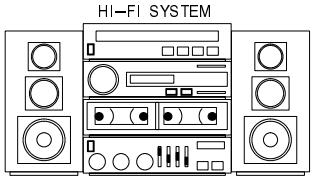


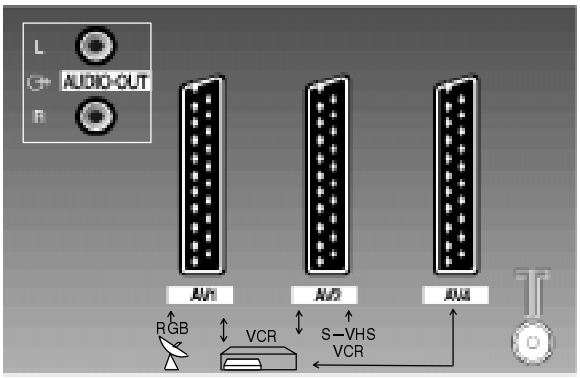
Rear AV1/AV2 (S)/AV4 21 Pin SCART and RCA Audio Out Terminals

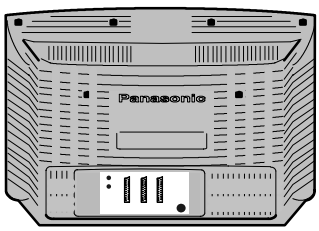


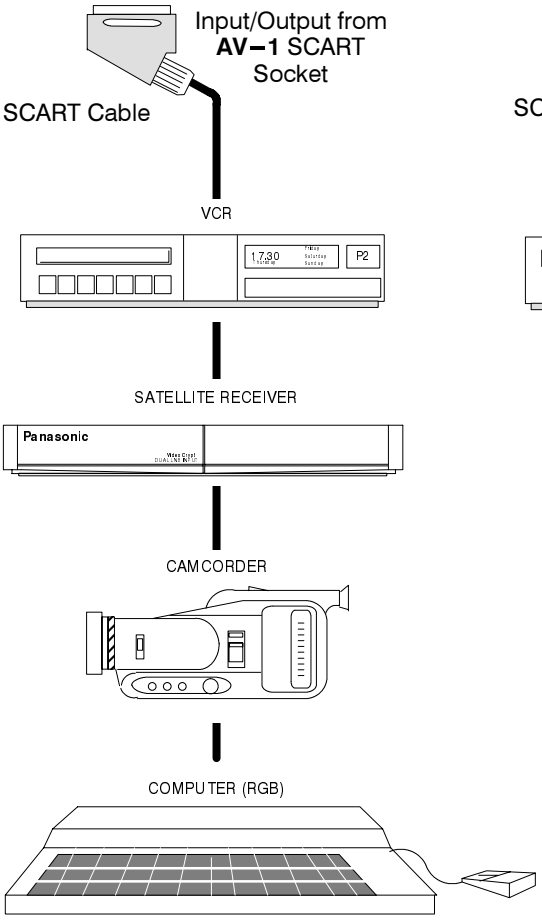
Output from
L–R AUDIO OUT
Sockets

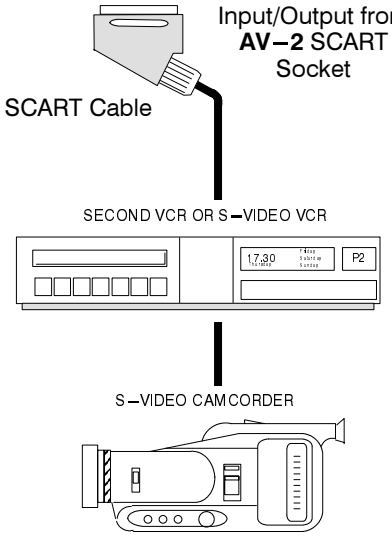
2 x RCA Audio
Cables

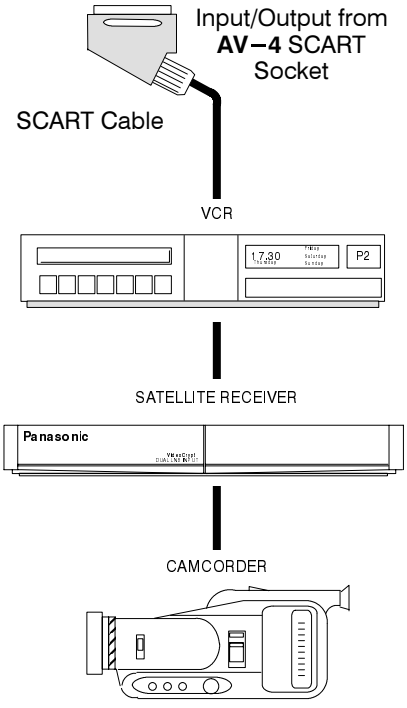




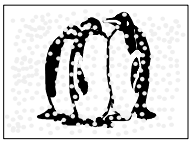
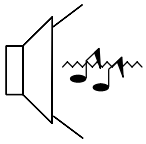
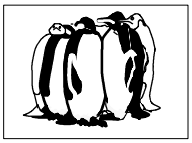
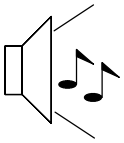
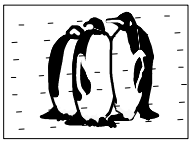
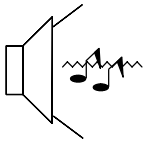
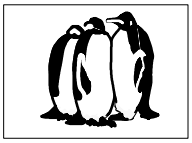
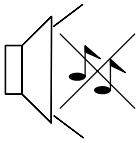
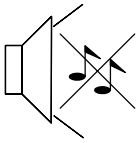
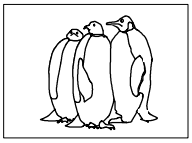
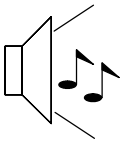
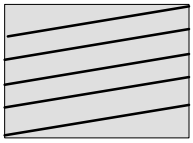
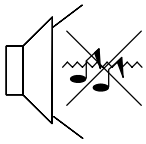
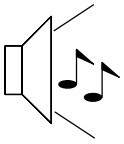
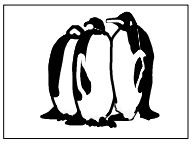
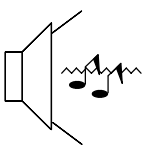








NOTES:
Ancillary equipment and cables shown are not supplied with this TV set.
Do not connect a computer with TTL output (5V) to this set.
The AV2 21 pin terminal can also be used as an Output to Audio / Video Equipment (refer to page 10 for details).

Symptoms		Checks
Picture	**Sound**	
 Snowy Picture	 Noisy Sound	Aerial location, direction or connection
 Multiple Images	 Normal Sound	Aerial location, direction or connection
 Interference	 Noisy Sound	Electrical appliances Cars / Motorcycles Fluorescent lights Switch on P–NR in Setup menu to reduce picture noise
 Normal Picture	 No Sound	Volume level Sound mute switched on
No Picture	 No Sound	TV set to AV mode Not plugged into A.C. outlet Not switched on Picture / Sound controls set at minimum levels Check if in standby mode
 No Colour	 Normal Sound	Colour controls set at minimum levels
 Poor or Distorted Picture	 Weak or No Sound	Retune Channel(s)
Coloured Patches	 Normal Sound	Magnetic Interference from unshielded equipment Receiver moved while switched ON, switch TV off for 30 minutes.
 Normal Picture	 Weak or distorted sound	Sound reception may have deteriorated. Switch MPX setting (Sound menu) to Mono until reception improves.

FOR YOUR GUIDANCE

■ Service

Before requesting service, please refer to the trouble–shooting guide on previous page to determine the symptoms. To obtain service please contact your local Panasonic dealer quoting the model number and serial number (both are located at the rear of the TV).

■ TV Games / Home Computers

Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage, can be limited by observing the following points:

- Reduce the brightness and contrast levels to a minimum viewing level.
- Do not operate the television set for a continuous period of time while using TV games or home computers.
- This type of picture tube damage, is not an operating defect, and as such is not covered by the Panasonic warranty.

■ Sleep Feature

If the set is not switched off when the TV station stops transmitting , it will automatically go to standby mode after 30 minutes. This function will not operate when the TV is in AV mode.

■ Last Position Memory

Certain functions have a last position memory, i.e. the setting at the time of switch–off will be the setting used when the receiver is switched on again:–

Programme	Tint (M.NTSC / NTSC only)
OSD language	Contrast
AV Position	Sharpness
Volume	Aspect
MPX	Standby
Bass	Artificial Intelligence (AI)
Treble	Colour
Balance	Brightness
AV2 OUT selection	Headphone volume
Status	P–NR
Ambience	Colour system
Flicker	Mode

SPECIFICATIONS

	TX–W32D3F	TX–W28D3F
Power Source	220 – 240V 50Hz A.C.	
Power consumption	151W	149W
Standby consumption	1W	
Picture Tube	76cm visible diagonal	66cm visible diagonal
Audio Output (Music)	2 x 20W, 8Ω impedance	
Dimensions H W D	555 mm 862 mm 553 mm	497 mm 760 mm 518 mm
Weight (Kg)	52	39.7
Receiving Systems/ Band name	**PAL B, G, H, I, PAL–60, SECAM B, G, SECAM L/L'** VHF E2 – E12 / VHF H1 – H2 (ITALY) VHF A – H (ITALY) UHF E21 – E69 CATV (S01 – S05) / CATV S1 – S10 (M1 – M10) CATV S11 – S20 (U1 – U10) / CATV S21 – S41 (Hyperband) **PAL D,K, SECAM D,K** VHF R1 – R2 / VHF R3 – R5 VHF R6 – R12 / UHF E21 – E69 **M.NTSC** Playback from NTSC 4.43 MHz Videorecorders (VCR) **NTSC (AV input only)** Playback from NTSC Videorecorders (VCR)	
Aerial – Rear	UHF / VHF	
Headphones – Front	3,5mm, 8Ω impedance	
AV – Rear	**AV1 –** 21 pin terminal – Audio / Video in / out, RGB in. **AV2** – 21 pin terminal – Audio / Video in / out, S–Video in, Selectable output. **AV4 –** 21 pin terminal – Audio / Video in /out 2 x RCA Audio Monitor Out	
AV – Front	**AV3 –** S–Video in, 2 x RCA Audio in, 1 x RCA Video in	

- Specifications are subject to change without notice. Weight and dimensions shown are approximate.